2021 CHEMICAL SECURITY SEMINARS

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#ChemicalSecurity
P4 – A Platform for Public/Private Emergency Management Collaboration

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P4 *(Public-Private Partnerships Platform)*

Enabling Public-Private Partnerships with innovative technology to build a more resilient nation

Founding Public Sector Participants

https://cest-cusec.hub.arcgis.com
P4 as a Test Bed for an Enhanced Business Emergency Operations Concept

Improving Private Sector Communication & Coordination
P4 - Bridging the Gap Between Public and Private Sector in Times of Crisis

Coordinate, Communicate, Inform

Local Partners

State EMAs

Federal Partners

Private Sector

CEST
P4 - Framework for Public-Private Coordination

CEST Team Tenant

- General: Space for general overview, instructions, announcements
- State-to-Business: For all collaboration across state and private sector
- State-to-State: For private collaboration among state partners
- Business-Business: For private collaboration among business partners
- Sig. Events: For sharing alerts/warnings/incident data, automatically posted to the channel.
- Chat: 1:1 or 1:many. This is a private conversation space, invite specific people. Chats can be named with a specific subject.

Additional Apps

Oregon Team Tenant
Albertsons Team Tenant
Idaho Team Tenant
Washington Team Tenant

Private Channel — includes subset of users

Additional channels can be added as needed.
Event Teams are incident-specific

Channels are configured to allow conversations (including chat, video calls) and share files with trusted partners, publicly or privately.

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P4 – Framework

**P3P Home Team**
- Home Team
  - General
  - State - Business
  - State - State

**Functional Teams**
- Coordinator
- Members
- Food, Water, Shelter
  - Training/Exercise
  - Planning
  - Requests for Assistance

**Incident Teams**
- 2022-06 Cascadia
  - Food, Water Shelter
  - Communications
  - Transportation

- Functional teams persist across incidents
- Channels organized based on needs of the group.

- Incident Team contains selected users from Functional Teams, as appropriate
- Teams are archived when Incident recovery is over

- Stakeholder team persists across incidents
- Includes all P3P members
P4 - Current Capabilities

- Integrated Teams and ArcGIS Hub, Single Sign On
- Onboarding Process
- P4 ‘Home Page’
- Contact Management System
- BEOC Incident Reporting Form and Dashboard
- ReportBot
- Bidirectional data exchange between ArcGIS and SharePoint Lists
- Creating / uploading files to share in a team
P4 - Integrated Teams and ArcGIS Hub through Single Sign-on

Combining Microsoft Teams and ArcGIS Online into a new virtual workspace
P4 - Organization Registration process

• Registration Process – invitation only
• Includes Organization Profile (primary contact, service area), Information Requirements
• Coordinator Approves Requests
• Feeds Contact Management System
CEST P3 Portal Registration and Information Requirement Survey

The Consortium for Emergency Services Technology (CEST) is building out a P3 Portal. The intent of the P3 Portal is to enable a reliable two-way exchange of information between Idaho, Oregon, and Washington and their respective public safety agencies.

As part of this, we are interested in better understanding your needs to identify information from the state that would be beneficial to your operations during a crisis or disaster. We are also interested in understanding what information you would be able to share with state partners in the Pacific Northwest so we can better maximize response and recovery efforts while minimizing negative impacts to your business.

Organization Profile

Organization Name

[Input field]

Primary Organization Sector

- Private Sector
- Local Government
- State Government
- Federal Government
- Nonprofit
- Other

Organization Footprint

[Input fields]

P3Platform Signup

User uses web form to request access to the platform and provide basic information
Welcome!

Your request to join the Consortium for Emergency Services Technology Public-Private-Partnership Portal (CEST P3 Portal) has been approved! This Portal is being developed through the combined efforts of Public and Private Sector collaborators, and will be tested during the Cascadia Rising 2022 exercise.

Next Steps:

You will receive an email from Microsoft (invites@microsoft.com) shortly, with a link to accept your invitation to the CEST P3 Portal. When you receive that email, please click ‘Accept Invitation’ to finish setting up access. If you don’t receive the invitation, please check your Spam/Junk mailbox.

Once you’ve accepted the invitation, you will be able to access the P3 Portal Stakeholder Team. Please explore the channels, and post a message in the

P3P New User Sign-In

New user receives emails with instructions & link to accept CEST membership
Applicant is notified that they are approved to join P4
P4 - Shared Situational Awareness
### Contact Management List

**Organization Type: Association (3)**

<table>
<thead>
<tr>
<th>Organization Type</th>
<th>Organization Name</th>
<th>Website/Email/Contact Details</th>
<th>Industry</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oregon Bankers Association</td>
<td>Oregon Bankers Association</td>
<td><a href="mailto:Bankers@OregonBankers.com">Bankers@OregonBankers.com</a></td>
<td>Finance/Insurance/Real Estate</td>
<td>statewide</td>
</tr>
<tr>
<td>Oregon Bankers Association</td>
<td>Gary Dukter</td>
<td><a href="mailto:Gdukter@OregonBankers.com">Gdukter@OregonBankers.com</a></td>
<td>Finance/Insurance/Real Estate</td>
<td>statewide</td>
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<tr>
<td>Oregon Restaurant &amp; Lodging Association</td>
<td>Oregon Restaurant &amp; Lodging Association</td>
<td><a href="mailto:RestaurantLodging@OregonRestaurant.com">RestaurantLodging@OregonRestaurant.com</a></td>
<td>Retail Trade</td>
<td>statewide</td>
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</table>

**Organization Type: Non-Profit (2)**

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<th>Organization Type</th>
<th>Organization Name</th>
<th>Website/Email/Contact Details</th>
<th>Industry</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center for innovative Technology</td>
<td>Center for Innovative Technology</td>
<td><a href="mailto:CenterInnovation@CenterforInnovation.com">CenterInnovation@CenterforInnovation.com</a></td>
<td>Public Administration</td>
<td>nationwide</td>
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<tr>
<td>Virginia CIT Public Safety Innovation Center</td>
<td>Virginia CIT Public Safety Innovation Center</td>
<td><a href="mailto:VirginiaCIT@PublicSafetyInnovation.org">VirginiaCIT@PublicSafetyInnovation.org</a></td>
<td>Other</td>
<td>statewide</td>
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**Organization Type: Private Sector (13)**

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<tr>
<th>Organization Type</th>
<th>Organization Name</th>
<th>Website/Email/Contact Details</th>
<th>Industry</th>
<th>Scope</th>
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</thead>
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<td>Albertsons Companies</td>
<td><a href="mailto:AlbertsonsCompanies@Albertsons.com">AlbertsonsCompanies@Albertsons.com</a></td>
<td>Retail Trade</td>
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<tr>
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<td>Retail Trade</td>
<td>international</td>
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<td>international</td>
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<td><a href="mailto:MicrosoftEmail@Microsoft.com">MicrosoftEmail@Microsoft.com</a></td>
<td>Services</td>
<td>international</td>
</tr>
</tbody>
</table>

**Contact Management List**

Return to TOC
P3 Platform Notifications
User receives and accepts invitation for Daily Coordination Calls
P4 - Communicate and coordinate with channels or small groups

- Voice / Video Conferencing
- Threaded chat messages
- Communication integrated file sharing, information products

Private & Small Group Conversation

State P3 Coordinators

Other NGO, Gov’t Stakeholders

Private Sector Partners

Return to TOC
P4 - Communicate and coordinate with channels or small groups

- Voice / Video Conferencing
- Threaded chat messages
- Communication integrated file sharing, information products
Daily Coordination Call
User joins call with link posted on State-Business Channel
P4 - Business Incident Reporting

- Issues impacting (or having potential to impact) business
- Requests for assistance
- Offers of donations, goods/services
- Questions for state partners

CEST Business Reporting Form

Report Type

- I’m reporting an issue that’s impacting my business operations
- I’m reporting an issue that has the potential of impacting my business operations
- I’m reporting a request for assistance
- I’m reporting an offer to provide donations / goods / services
- Question

Severity of the impact

- Low
- Medium
- High

Report of Issue Impacting my Business

Type of Impact you’re reporting

- Communications
- Food/Water/Shelter
P4 – Business Incident Reporting
ArcGIS Information Products Integrated Seamlessly into Teams

Enabling Conversation Thread around events in a Dashboard
P4 - ReportBot

- Reports generated as cards in Teams, PDF files
- Triggers: On-demand, Scheduled or by pre-defined criteria
P4 - ReportBot

- Integrated information feeds tailored to public and private sector users
P4 - Bi-Directional Data Exchange

ArcGIS Online Feature Service

SharePoint List in Teams
P4 - Creating or uploading files to share with a team
P4 – Work in Development

- Mission Tracking
- Polling
- Group Assignments
P4 - UAS Mission Tracking Use Case
Virginia VIPC, VDEM, York Co Fire

• Request for assistance received by state coordinators
• State coordinator assigns mission to mutual aid
• Rapid response team accepts mission
• Team coordination associated with a mission
• Mission stakeholders added to the communications
• Mission reporting / video streaming / etc.
A new Mission is added using the easy-to-use data entry form. *Requestor*, *Assigned To* and *Mission Team* fields are populated from registered users in the Drone Partner list.

Missions are logged in the Mission List.

An adaptive card is added to the Mission Post, providing members of the team awareness of the new mission.
P4 - Polling

1. **A new Mission is created**

2. UAS Team members are sent update regarding mission, including poll to indicate their availability and ETA if able to respond.

3. Mission Details page in P4 updated with availability of UAS Team Members to respond. UAS Team Lead can assemble team based on this information.
1. A Mission Team is assembled based on those available to respond.

2. A Group Tag is generated using the Mission Name, and the team members are added to it. Any time the team is updated, the Group Tag is refreshed.

3. The new Group Tag is named “MissionTeam” plus the name of the Mission. It can now be called to get the attention of those involved in the Drone Mission.

4. Notifications are delivered to Mission Team members.

A Group Tag is generated using the Mission Name, and the team members are added to it. Any time the team is updated, the Group Tag is refreshed.
The Consortium for Emergency Services Technology (CEST)

Example of CEST P4 in Use

Significant Earthquake triggers new P3 Platform workspace, notifications sent to CEST P3 users based on earthquake event.

Waivers are shared with private sector partners (e.g., re-entry waivers supporting Mass Care response operations, weight-limit and driver hour waivers for Transportation.

The P3 Platform is used to conduct daily PPP briefings, bringing in real-time damage assessments of key private sector infrastructure (banking, food service).

Location and extent of modeled damages, casualties, Lifeline Status, food-water-shelter needs, and Evacuation plans shared.

Company Y offers to provide a staging area for the POD, along with an offer to supply ice and pallets of water.